

Sunflower Wind - List of Turbine Coordinates

Dated: 9/24/2015

Sunflower Shapefiles: sunflower_layout_microsited_20150825.shp
sunflower_proposed_PMT_20150714.shp

Coordinate Set #1	Coordinate Set #2
WGS84 Geographic Lat/Long	UTM, NAD 83, Zone 14N

Turbine Designation for Project Documents / Operations	Turbine ID/DNH	Latitude (Degrees Minutes Decimal Seconds)	Longitude (Degrees Minutes Decimal Seconds)	Easting (X) (m)	Northing (Y) (m)	Approx Existing Ground Elevation (m amsl)	Approx Existing Ground Elevation (ft amsl)	Turbine Model
01	01	N 46° 49' 17.02"	W 102° 08' 05.40"	260887.0	5190089.0	745.2	2444.97	Vestas V100-2.0 MW
02	02	N 46° 49' 16.92"	W 102° 07' 44.23"	261335.3	5190068.1	751.1	2464.14	Vestas V100-2.0 MW
03	03	N 46° 49' 23.58"	W 102° 07' 26.18"	261725.8	5190258.5	762.9	2502.86	Vestas V100-2.0 MW
04	04	N 46° 49' 46.15"	W 102° 07' 15.81"	261973.4	5190946.2	760.4	2494.65	Vestas V100-2.0 MW
05	05	N 46° 49' 46.06"	W 102° 06' 54.85"	262417.3	5190925.9	770.3	2527.31	Vestas V100-2.0 MW
06	06	N 46° 49' 47.19"	W 102° 06' 35.65"	262825.4	5190944.7	755.7	2479.22	Vestas V100-2.0 MW
07	07	N 46° 49' 55.39"	W 102° 06' 24.16"	263078.7	5191188.0	753.5	2472.13	Vestas V100-2.0 MW
08	08	N 46° 50' 10.67"	W 102° 06' 21.45"	263154.8	5191657.4	738.5	2422.97	Vestas V100-2.0 MW
09	11	N 46° 50' 10.24"	W 102° 05' 35.00"	264138.2	5191605.4	754.7	2476.01	Vestas V100-2.0 MW
10	12	N 46° 50' 12.06"	W 102° 05' 18.18"	264496.6	5191647.4	764.6	2508.62	Vestas V100-2.0 MW
11	13	N 46° 50' 15.05"	W 102° 04' 54.95"	264992.1	5191720.3	760.7	2495.79	Vestas V100-2.0 MW
12	14	N 46° 50' 17.38"	W 102° 04' 40.53"	265300.5	5191780.2	763.2	2504.07	Vestas V100-2.0 MW
13	15	N 46° 50' 18.80"	W 102° 04' 15.10"	265840.8	5191802.9	765.9	2512.77	Vestas V100-2.0 MW
14	16	N 46° 50' 18.82"	W 102° 03' 51.11"	266349.0	5191783.6	768.1	2519.94	Vestas V100-2.0 MW
15	17	N 46° 50' 18.47"	W 102° 03' 28.49"	266827.6	5191754.3	765.3	2510.85	Vestas V100-2.0 MW
16	18	N 46° 50' 15.77"	W 102° 03' 04.70"	267328.2	5191651.3	765.0	2510.00	Vestas V100-2.0 MW
17	19	N 46° 50' 35.88"	W 102° 02' 51.47"	267632.5	5192261.1	756.1	2480.58	Vestas V100-2.0 MW
18	20	N 46° 50' 40.95"	W 102° 02' 31.50"	268061.6	5192401.1	760.6	2495.52	Vestas V100-2.0 MW
19	21	N 46° 50' 50.33"	W 102° 02' 25.04"	268209.4	5192685.2	756.3	2481.15	Vestas V100-2.0 MW
20	22	N 46° 51' 02.71"	W 102° 02' 20.72"	268315.8	5193064.3	753.3	2471.34	Vestas V100-2.0 MW
21	24	N 46° 49' 12.06"	W 102° 05' 42.93"	263899.3	5189816.3	767.7	2518.64	Vestas V100-2.0 MW
22	25	N 46° 49' 23.81"	W 102° 05' 34.77"	264086.6	5190172.0	764.4	2507.85	Vestas V100-2.0 MW
23	26	N 46° 49' 29.20"	W 102° 05' 20.19"	264401.8	5190326.3	761.8	2499.46	Vestas V100-2.0 MW
24	27	N 46° 49' 35.48"	W 102° 05' 06.85"	264692.3	5190509.0	760.2	2494.05	Vestas V100-2.0 MW
25	28	N 46° 49' 43.40"	W 102° 04' 46.29"	265137.4	5190736.2	752.7	2469.52	Vestas V100-2.0 MW
26	36	N 46° 49' 11.24"	W 102° 04' 17.88"	265700.4	5189720.2	745.6	2446.25	Vestas V100-2.0 MW
27	37	N 46° 49' 21.37"	W 102° 04' 09.26"	265895.1	5190025.6	751.4	2465.08	Vestas V100-2.0 MW
28	38	N 46° 49' 29.57"	W 102° 03' 45.86"	266400.8	5190259.4	741.5	2432.75	Vestas V100-2.0 MW
29	A07	N 46° 49' 32.45"	W 102° 03' 25.82"	266828.9	5190331.7	740.6	2429.82	Vestas V100-2.0 MW
30	39	N 46° 49' 23.61"	W 102° 02' 43.97"	267704.8	5190024.3	741.5	2432.70	Vestas V100-2.0 MW
31	40	N 46° 49' 32.49"	W 102° 02' 34.80"	267909.8	5190291.0	746.3	2448.36	Vestas V100-2.0 MW
32	41	N 46° 49' 42.55"	W 102° 02' 25.77"	268112.0	5190594.0	754.9	2476.61	Vestas V100-2.0 MW
33	42	N 46° 49' 49.74"	W 102° 02' 13.10"	268390.9	5190805.3	751.4	2465.15	Vestas V100-2.0 MW
34	43	N 46° 49' 55.22"	W 102° 01' 57.01"	268737.4	5190961.4	752.8	2469.78	Vestas V100-2.0 MW
35	44	N 46° 50' 06.21"	W 102° 01' 49.53"	268909.0	5191294.6	760.4	2494.70	Vestas V100-2.0 MW
36	A08	N 46° 49' 22.00"	W 102° 01' 45.75"	268936.4	5189926.9	743.5	2439.33	Vestas V100-2.0 MW
37	45	N 46° 49' 22.58"	W 102° 01' 27.37"	269326.4	5189929.8	738.6	2423.23	Vestas V100-2.0 MW
38	46	N 46° 49' 38.28"	W 102° 01' 17.16"	269561.5	5190406.2	753.9	2473.58	Vestas V100-2.0 MW
39	47	N 46° 49' 44.75"	W 102° 01' 07.94"	269764.3	5190598.3	757.1	2483.78	Vestas V100-2.0 MW
40	48	N 46° 49' 57.06"	W 102° 00' 52.19"	270112.7	5190965.5	751.0	2463.84	Vestas V100-2.0 MW
41	49	N 46° 50' 03.25"	W 102° 00' 41.07"	270355.6	5191147.5	747.1	2451.26	Vestas V100-2.0 MW
42	50	N 46° 50' 14.54"	W 102° 00' 22.44"	270763.3	5191480.7	727.7	2387.32	Vestas V100-2.0 MW
43	A12	N 46° 49' 14.23"	W 102° 00' 49.06"	270128.1	5189640.9	743.4	2438.97	Vestas V100-2.0 MW
44	A13	N 46° 49' 23.10"	W 102° 00' 33.95"	270458.8	5189902.2	738.1	2421.45	Vestas V100-2.0 MW
45	51	N 46° 49' 32.77"	W 102° 00' 22.15"	270720.2	5190191.3	739.6	2426.53	Vestas V100-2.0 MW
46	52	N 46° 49' 40.70"	W 102° 00' 04.11"	271111.8	5190421.2	736.6	2416.74	Vestas V100-2.0 MW
47	53	N 46° 49' 42.50"	W 101° 59' 50.92"	271393.2	5190466.2	742.9	2437.18	Vestas V100-2.0 MW
48	29	N 46° 48' 25.53"	W 102° 06' 20.44"	263047.7	5188411.6	768.8	2522.39	Vestas V100-2.0 MW
49	30	N 46° 48' 29.32"	W 102° 06' 01.77"	263448.0	5188512.7	767.5	2518.07	Vestas V100-2.0 MW
50	31	N 46° 48' 33.41"	W 102° 05' 40.42"	263905.6	5188621.2	770.7	2528.55	Vestas V100-2.0 MW
51	32	N 46° 48' 48.40"	W 102° 05' 26.20"	264225.0	5189071.9	767.9	2519.49	Vestas V100-2.0 MW
52	33	N 46° 48' 52.19"	W 102° 05' 09.82"	264576.7	5189175.1	773.5	2537.62	Vestas V100-2.0 MW

Permanent Meteorological Towers

PMT	Turbine ID/DNH	Longitude (Degrees Minutes Decimal Seconds)	Latitude (Degrees Minutes Decimal Seconds)	Easting (X) (m)	Northing (Y) (m)	Approx Existing Ground Elevation (m amsl)	Approx Existing Ground Elevation (ft amsl)	Status
PMT 01-02	PMT 01-02	N 46° 49' 20.48"	W 102° 07' 54.75"	261116.8	5190187.0	743.0	2438	Base Case
PMT 44-45	PMT 44-45	N 46° 49' 23.96"	W 102° 00' 22.23"	270708.0	5189919.3	736.4	2416	Base Case